Title (en)

LITHIUM BATTERY AND METHOD FOR MANUFACTURING THE SAME

Title (de)

LITHIUM BATTERIE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

BATTERIE AU LITHIUM ET SON PROCEDE DE FABRICATION

Publication

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Application

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Priority

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Abstract (en)

An object of the invention is to provide a lithium ion battery which is compact and yet hardly develops a short-circuit between electrodes and a process for producing the same with ease. The process comprises the steps of separately fixing separators (10 and 20) to a positive electrode (1) and a negative electrode (2) so as to cover at least the surfaces facing each other and of fixing the separator-covered positive and negative electrodes together with their separators in contact with each other. Since the facing sides of the positive and the negative electrodes have been covered with the respective separators before superposition, they can be positioned with little misregister. Even in case they are superposed out of register, a short-circuit hardly occurs between them because their facing sides are covered with the separators. There is no need to make the separators larger in size than the electrodes. The battery comprises a laminate electrode body having a positive electrode, a negative electrode, at least two separators between the positive and the negative electrodes, and an adhesive layer (3) between each of the positive and the negative electrodes and the respective separators and between the two separators. Where the battery is designed to be of laminate battery body type having a plurality of laminate electrodes, a practical lithium ion battery which is compact and yet hardly develops a short-circuit and has a large capacity can be produced easily. <IMAGE>

IPC 1-7

H01M 10/40

IPC 8 full level

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Cited by

CN102666090A; EP1285468A4; US10522809B2; US7014948B2; US8062387B2; US8277897B2

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